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TCS 19314/64
M/EB 531/64
13 November 1964
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MEMORANDUM FOR: Chief, Ballistic Missile and Space Division, OSI
ATTENTION: [REDACTED] 25X1A
THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS
FROM: Chief, CIA/PID
SUBJECT: High Frequency Communications Associated with FLIM FLAM Tracking Facilities in the USSR

REFERENCES:

- (a) Requirement C-SI-4-80,659
- (b) CIA/PID Project C 1397-63
- (c) M/EB 256/64 (15 May 64), Golenki
- (d) M/EB 371/64 (24 Jul 64), Yeniseysk
- (e) M/EB 394/64 (4 Aug 64), Khutor
- (f) M/EB 491/64 (20 Oct 64), Ulan Ude
- (g) M/EB 493/64 (21 Oct 64), Simferopol

1. This memorandum is a partial response to your requirement dated 4 October 1963 requesting a detailed photo analysis of each FLIM FLAM tracking facility in the USSR.

The purpose of this memorandum is to describe the high frequency communication antennas associated with, or located nearby, each FLIM FLAM facility.

2. High frequency point-to-point communication antennas can be identified at or near six of the seven identified FLIM FLAM facilities. A suspect communication area is identified at the seventh facility, Golenki.

a. Golenki (44-01N 131-46E). A suspect communication area is located on the west side of the fenced operations area. Although no antenna masts can be identified, [REDACTED] 25X1D

b. Khutor (53-06N 158-21E). Two HF communication areas are associated with the FLIM FLAM facility. One of these, consisting of rhombic antennas, is located adjacent on the east to the Type B tracking site. The other, consisting of possible fishbone and Vee antennas, is located adjacent to the main support area. The rhombic antenna area consists of one control building and approximately eleven rhombic antennas. No masts can be identified. 25X1D

GROUP 1
Excluded from automatic
downgrading and
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SUBJECT: High Frequency Communications Associated TCS 10314/64
with FLIM FLAM Tracking Facilities in the USSR M/EB 531/64

The following are azimuth orientations based on the general orientation of clearings formed by the antennas in wooded areas:

<u>Length of clearing (feet)</u>	<u>General Orientation (degrees)</u>
900) 440) Confirmed N/D pair	
750) 400) Suspect N/D pair	
540	
460	
400	
340	
600	
500	
470	

25X1D

25X1D The possible fishbone and Vee antenna area consists of one control building and approximately ten antennas. No masts can be identified. Based on the clearings formed by the antennas and feed lines, the antennas may cover an orientation azimuth arc of from generally 45/225 to 170/350 degrees. Some of the general orientations identified, such as [redacted] degrees, 115 degrees, [redacted] are similar to those of the rhombic antennas. 25X1D

Without better quality photography, the data obtained on the Khutor antennas must remain in the confidence factor range, if possible.

c. Simferopol (45-03N 33-53E). The Simferopol FLIM FLAM facility utilized the HF communications of the Simferopol Earth Satellite Tracking and Communication Center. These are located within the northwest portion of the main secured area. Quality of available photography does not permit the identification of masts but ground scars indicate the probable existence of one night/day pair of rhombics and several fishbone antennas. The rhombics are generally oriented at about 15 degrees and the fishbones cover an arc of orientation from approximately [redacted] 25X1D

d. Sary Shagan (45-53N 73-37E). The Sary Shagan FLIM FLAM facility utilizes the HF communication facilities of the Sary Shagan Missile Test Center, as well as communications constructed for Instrumentation Site 1. The communications located at Instrumentation Site 1 consist of two night/day pair of rhombics with azimuth orientations of [redacted] Dimensional data of these antennas is as follows:

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2

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M/EB 531/64

Major Axis (feet)

Minor Axis (feet)

25X1D

845
435
845
435



The absence of dissipation lines and the separation of the antennas probably for diversity reception indicates that they are probably only used for receiving.

e. Ulan Uda (51-52N 107-56E). An HF communications area consisting of one control building and approximately nine fishbone antennas is located on the east side of the main secured area. No masts can be identified. Based on ground scarring the following general azimuth orientations can be identified:

Two at
One at
Two at
One at

Three at 125/305 degrees

25X1D

25X1D

25X1D

Four of these fishbones were constructed between [redacted]. These are the two oriented [redacted] and one of the three oriented 125/305 degrees.

f. Yeniseysk (58-27N 92-16E). No HF communication facilities can be identified at the Yeniseysk FLIM FLAM facility; however, an HF communications station consisting of a suspect area and six rhombics (three night/day pairs) have been recently constructed at 58-21-45N 92-23-30E, approximately seven nautical miles southeast of the facility which may be in support of the FLIM FLAM operation. Based on the clearings formed by the antennas, the following information is obtained:

Average Dimensions of Clearings (feet)

Average Azimuth Orientation(degrees)

Major Axis

Minor Axis



N/D pair
N/D pair
N/D pair

115/295

115/295

25X1D

25X1D

25X1D

3

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with FLIM FLAM Tracking Facilities in the USSR M/EB 531/64

5. Moscow (55-56N 37-58E). No HF communication facilities can be directly related to the Moscow FLIM FLAM facility; however, one communications station presently under construction is of interest. This station is located at 56-03N 38-02E approximately 6.5 nautical miles north-northeast of the tracking facility. It consists of two earth covered probable control buildings and numerous rhombic antennas under construction. Dimensions of earth clearings and azimuth orientations for seven rhombics are as follows:

<u>Major Axis (feet)</u>	<u>Minor Axis (feet)</u>	<u>Azimuth Orientation(degrees)</u>	
935	495		
980	520		
486	300	N/D pair	25X1D
870	500	N/D pair	
520	330	N/D pair	
920	480		
450	280	N/D pair	145/325 25X1A

3. The photo analyst on this project is [REDACTED] who may be contacted on extension 3623 should you have any further questions concerning this project.

4. This project is not considered to be complete.

[REDACTED] 25X1A

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